# RENEWAL APPLICATION FOR A WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION TITLE V PERMIT FOR THE MARTINSBURG COMPUTING CENTER AND ANNEX

Submitted By:
U.S. Department of the Treasury
Internal Revenue Service
Enterprise Computing Center – Martinsburg
250 Murall Drive
Kearneysville, WV 25430

Resubmitted To:
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street, SE
Charleston, WV 25304

December 2016





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### 1.0 Introduction

The U.S. Department of the Treasury, Internal Revenue Service (IRS) operates the Martinsburg Computing Center located in Kearneysville, West Virginia. The existing facility consists of two buildings; the Main Building and the Annex /Annex Office Expansion. The Main Building is owned by the general Services Administration (GSA) with delegated operations by the IRS. The IRS is submitting the renewal application for a Title V Permit to the West Virginian Department of Environmental Protection (WVDEP) Department of Air Quality for processing. Provided in the following sections is the renewal application and attachments as required.



## WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### **DIVISION OF AIR QUALITY**

601 57<sup>th</sup> Street SE Charleston, WV 25304 Phone: (304) 926-0475

WV DEP / DIV OF AIR QUALITY

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www.dep.wv.gov/daq

### INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information			
Name of Applicant (As registered with the WV Secretary of State's Office):  US DEPARTMENT OF THE TREASURY, INTERNAL REVENUE SERVICE	2. Facility Name or Location:  Martinsburg Computing Center – Main Building & Annex  250 Murall Drive MS#2225  Kearneysville, WV 25430		
3. DAQ Plant ID No.:	4. Federal Employer ID No. (FEIN):		
003-00133	55-1782822		
	perations commence? 09/29/2008 expiration date of the existing permit? 09/22/2015		
6. Type of Business Entity:  Corporation	7. Is the Applicant the:  Owner E Operator Both  If the Applicant is not both the owner and operator, please provide the name and address of the other party.  GSA, ROBERT C BYRD  US COURTHOUSE ROOM 1620  300 Virginia St East Charleston, WV 25301		
9. Governmental Code:  Privately owned and operated; 0  X Federally owned and operated; 1  State government owned and operated; 2	County government owned and operated; 3 Municipality government owned and operated; 4 District government owned and operated; 5		

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10. Business Confidentiality Claims				
Does this application include con	fidential inform	ation (per 45CSR31)?	Yes	x No
If yes, identify each segment of in justification for each segment clataccordance with the DAQ's "PRE	imed confidentia	al, including the criteria	a under 45C	CSR§31-4.1, and in
11. Mailing Address				
Street or P.O. Box: 250 MURALL I	DIRVE			
City: KEARNEYSVILLE		State: WV	7	Zip: 25430-5200
<b>Telephone Number:</b> (304) 264-5516	j	Fax Number: (304)-	264-5596	
12. Facility Location				
Street: 250 MURALL DRIVE	City: KEARN	EYSVILLE	County:	BERKELEY
UTM Easting: 248.928 km	UTM Northin	<b>g:</b> 4365.127 km	Zone: 17	or <b>Ξ</b> 18
<b>Directions:</b> Take I-81 to WV Exit 12 (WV-45/Winchester Avenue/Charles Town), turn onto WV-45 East bound (Apple Harvest Dr.). Drive for 2.0 miles until WV-45 East bound becomes WV-9 East bound (Charles Town Road), Drive for 3.7 miles on WV-9 East bound (Charles Town Road), Turn right onto Short Rd., Make an immediate left onto Murall Drive, Drive for 0.2 miles on Murall Drive to arrive at the site.				
Portable Source?  Yes x No				
Is facility located within a nonattain	ment area? [	Yes x No	If yes, for	what air pollutants?
Is facility located within 50 miles of	another state?	x Yes No	If yes, nar Maryland Virginia	me the affected state(s).

Is facility located within 100 km of a Class I Area <sup>1</sup> ? Yes x No	If yes, name the area(s).
If no, do emissions impact a Class I Area <sup>1</sup> ?  Yes x No	
Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and S. Face Wilderness Area in Virginia.	l henandoah National Park and James River

13. Contact Information			
Responsible Official: Jeffery Bosley	Title: Building Manager		
Street or P.O. Box: 250 Murall Drive			
City: Kearneysville	State: WV	Zip: -25430	
<b>Telephone Number:</b> (304) 264-5385	Fax Number: (304) 264-5596		
E-mail address: JEFFERY.A.BOSLELY@IRS	S.GOV		
Environmental Contact: CATHY ORR	Title: ENVIRONMENTAL COORDINATOR		
Street or P.O. Box: 250 MURALL DRIVE		24	
City: KEARNEYSVILLE	State: WV	Zip: 25430-	
<b>Telephone Number:</b> (304) -264-5516	Fax Number: (304) 264-5596		
E-mail address: CATHY.M.ORR@IRS.GOV			
Application Preparer: CATHY ORR	Title: ENVIRONMENTAL COORDINATOR		
Company: IRS			
Street or P.O. Box: 250 MURALL DRIVE			
City: KEARNEYSVILLE	State: WV	Zip: 25430-	
<b>Telephone Number:</b> (304) 264-5516	Fax Number: (304) 264-5596		
E-mail address: CATHY.M.ORR@IRS.GOV			

### 14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
BOILERS	NO.2 FUEL OIL	92113	9311
EMERGENCY GENERATORS	NO.2 FUEL OIL	92113	9311
·			

### Provide a general description of operations.

The Main Building is equipped with four 5.25 MMBTU/hr boilers identified as B-1.1, B-1.2, B-1.3, and B-1.4 which provide space heating for the Main Building. These boilers each operate using No. 2 Fuel Oil at a design rate of 35.7 gallons per hour. Their No. 2 Fuel Oil is supplied from three underground storage tanks (T-04-001C, T-04-002C, and T-04-003C). All four boilers vent to a common stack (B2-001CS) and are not equipped with any air pollution control devices.

The Main building is also equipped with ten emergency generators (ENG-1 through ENG-10) to supply emergency power. These generators are approximately 1,900 HP each and will be limited to 500 hours of operation each per year. All ten emergency generators operate using No. 2 fuel oil and each have a small 500 gallon day tank (ENG1-DT through ENG-10-DT). These day tanks are supplied fuel by the three underground storage tanks mentioned above.

The Annex is equipped with two 1.62 MMBTU/hr boilers identified as B2-001A and B2-002A which provide space heating for the Annex. These boilers each operate using No. 2 fuel oil at a design rate of 11.6 gallons per hour. The No. 2 fuel oil is supplied from an underground storage tank (T4-001A). Each boiler vents to its own stack (B2-001A and B2-002S) and neither of the stacks are equipped with any air pollution control devices.

The Annex is also equipped with five emergency generators to supply emergency power. These generators are approximately 1900 HP each and will be limited to 500 hours of operations each year. All five emergency generators operate using No. 2 fuel oil and receive fuel from five small 100 gallon tanks (T3-001A through T3-005A). These five tanks are supplied fuel by a larger 2500 gallon aboveground tank (T3-006A). T3-006A is supplied fuel form the underground storage tank mentioned above.

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- 15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.
- 16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan Guidelines."
- 17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT** C. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

### Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
□ SIP	☐ FIP
X Minor source NSR (45CSR13)	☐ PSD (45CSR14)
☐ NESHAP (45CSR34)	☐ Nonattainment NSR (45CSR19)
Section 111 NSPS	X Section 112(d) MACT standards
Section 112(g) Case-by-case MACT	☐ 112(r) RMP
Section 112(i) Early reduction of HAP	Consumer/commercial prod. reqts., section 183(e)
Section 129 Standards/Reqts.	Stratospheric ozone (Title VI)
Tank vessel reqt., section 183(f)	Emissions cap 45CSR§30-2.6.1
NAAQS, increments or visibility (temp. sources)	45CSR27 State enforceable only rule
45CSR4 State enforceable only rule	Acid Rain (Title IV, 45CSR33)
☐ Emissions Trading and Banking (45CSR28)	Compliance Assurance Monitoring (40CFR64)
CAIR NO <sub>x</sub> Annual Trading Program (45CSR39)	CAIR NO <sub>x</sub> Ozone Season Trading Program (45CSR40)
☐ CAIR SO <sub>2</sub> Trading Program (45CSR41)	
19. Non Applicability Determinations	

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.
45CSR10 – To Prevent and Control air Pollution From Emissions of Sulfur Oxides. Each of the boilers has a maximum design heat input of less than 10 MMBur/hr and are not subject to 45CSR10 per 45CSR 10-10-1.
40 CFR part 60 subpart Dc – Standards of Performance for fossil-fuel-fired steam generators for which construction is commenced after June 9,1989 does not apply because each of the boilers are less that the applicability size of 10 MMBru/hr.
40 CFR Part 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (including petroleum liquid storage vessels) for which construction, reconstruction or modification commenced after July 23, 1984 does not apply because the fuel oil that IRS acquires has vapor pressure less than 15.0kPa (=2.175566 psi), 40 CFR 60.11Ob(b). The tanks at this facility do not meet any requirements. Thus, the tanks are not listed in the permit.
40CRF Par 60 Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The ten (10) 2,628 hp and five (5) 2,167 hp compression ignition, internal combustion engines were manufactured before July 11, 2005. Thus these engines are not subject to 40 CFR Part 60 Subpart III.
40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. The ten (10) 2.628 hp and five (5) 2,167 hp are not spark ignition internal combustion engines. These engines were also manufactured before June 12, 2006. Thus, these engines are not subject to 40 cfr Part 60 Subpart JJJJ.
40 CFR Par 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The facility's fifteen (15) emergency generator sets are not subject to 40 CDFR Part 63 subpart ZZZZ since construction commenced before June d12. 2006 the facility is not a major source of HAPs.
40 CFR Part 64 Compliance Assurance Monitoring (CAM) – CAM applies to any pollutant specific emissions units (PSEU) that satisfy all of the applicability criteria requirements of 40 CFR 64.2 (a) i.e., that: (1) have precontrol regulated pollutant potential emissions (PTE) equal to or greater than the major threshold limits to be classified as a major source; (2) are subject to an emission limitation or standard and (3) have a control device to achieve compliance with such emission limitation or standard. Since this facility does not have any control devices, it is not subject to the CAM rule.
Permit Shield
19. Non Applicability Determinations (Continued) - Attach additional pages as necessary.

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.		
	e.	
Permit Shield		

20. Facility-Wide Applicable Requirements		
List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).  45CSR6-3.1.1 – Open burning  45CSR61.145(b) and 45CSR34 – Asbestos  45CSR4-3.1 – Odor  45CSR13-10.5 - Permanent shutdown  45CSR11-5.2 – Standby plan for reducing emissions  WV Code 22-5-4(a)(14-115) and 45CSR13 – Stack Testing  45CSR2-3.1 Visible emissions  45CSR4 – Retention of records  45CSR30 - Operating fee		
Permit Shield		
For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)  45CSR6-3.1.1 - Open burning - Record Keeping (3.1.1)  45CSR61.145(b) and 45CSR34 - Asbestos - No asbestos materials within the complex (3.1.3)  45CSR4-3.1 - Odor - Record Keeping (3.1.4)  45CSR13-10.5 - Permanent shutdown - record keeping (3.1.5)  45CSR11-5.2 - Standby plan for reducing emissions - Record Keeping (3.1.6)  45CSR2-3.1 Visible emissions - Stack Testing - Record Keeping of Opacity visible emissions (3.3.1)  45CSR4 - Retention of records - record keeping (3.4.1)  45CSR30 - Operating fee - Copy of paid fees - (3.5.4.1)		
Are you in compliance with all facility-wide applicable requirements? x Yes No		
If no, complete the Schedule of Compliance Form as ATTACHMENT F.		

20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.		
List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.		
٤.		
Permit Shield		
For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)		
Are you in compliance with all facility-wide applicable requirements? x Yes No		
If no, complete the Schedule of Compliance Form as ATTACHMENT F.		

Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit (if any)
R13-2787a	02/01/2012	
R13-2788	02/13/2009	
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Permit Number	Date of Issuance	Permit Condition Number
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Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year	ar]
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	4.6 TPY
Nitrogen Oxides (NO <sub>X</sub> )	3.11 TPY
Lead (Pb)	
Particulate Matter (PM <sub>2.5</sub> ) <sup>1</sup>	
Particulate Matter (PM <sub>10</sub> ) <sup>1</sup>	.34 TPY
Total Particulate Matter (TSP)	
Sulfur Dioxide (SO <sub>2</sub> )	4.42 TPY
Volatile Organic Compounds (VOC)	.20 TPY
Hazardous Air Pollutants <sup>2</sup>	Potential Emissions
Regulated Pollutants other than Criteria and HAP	Potential Emissions

 $<sup>^{1}</sup>PM_{2.5}$  and  $PM_{10}$  are components of TSP.

 $<sup>^2</sup>$ For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

### Section 4: Insignificant Activities

24.	Insign	ificant Activities (Check all that apply)
X	1.	Air compressors and pneumatically operated equipment, including hand tools.
X	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.
X	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
X	4.	Bathroom/toilet vent emissions.
X	5.	Batteries and battery charging stations, except at battery manufacturing plants.
	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
	7.	Blacksmith forges.
	8.	Boiler water treatment operations, not including cooling towers.
	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
	10.	CO <sub>2</sub> lasers, used only on metals and other materials which do not emit HAP in the process.
	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
X	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
	14.	Demineralized water tanks and demineralizer vents.
	15.	Drop hammers or hydraulic presses for forging or metalworking.
	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
	17.	Emergency (backup) electrical generators at residential locations.
	18.	Emergency road flares.
	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO <sub>x</sub> , SO <sub>2</sub> , VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units.
		Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:

24.	Insigni	ficant Activities (Check all that apply)
	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.
		Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:
		<del></del>
	21	The investment with a horse day of mollutant (HAD) cases
片	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.
	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
	26.	Fire suppression systems.
	27.	Firefighting equipment and the equipment used to train firefighters.
	28.	Flares used solely to indicate danger to the public.
	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
	32.	Humidity chambers.
	33.	Hydraulic and hydrostatic testing equipment.
	34.	Indoor or outdoor kerosene heaters.
	35.	Internal combustion engines used for landscaping purposes.
	36.	Laser trimmers using dust collection to prevent fugitive emissions.
	37.	Laundry activities, except for dry-cleaning and steam boilers.
	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
	39.	Oxygen scavenging (de-aeration) of water.
	40.	Ozone generators.

24.	Insigni	ificant Activities (Check all that apply)
	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
X	43.	Process water filtration systems and demineralizers.
	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
	48.	Shock chambers.
	49.	Solar simulators.
	50.	Space heaters operating by direct heat transfer.
	51.	Steam cleaning operations.
	52.	Steam leaks.
	53.	Steam sterilizers.
	54.	Steam vents and safety relief valves.
	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
X	56.	Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
	57.	Such other sources or activities as the Director may determine.
	58.	Tobacco smoking rooms and areas.
	59.	Vents from continuous emissions monitors and other analyzers.

### Section 5: Emission Units, Control Devices, and Emission Points

Equipment Table
Fill out the Title V Equipment Table and provide it as ATTACHMENT D.
Emission Units
For each emission unit listed in the <b>Title V Equipment Table</b> , fill out and provide an <b>Emission Unit Form</b> as <b>ATTACHMENT E</b> .
For each emission unit not in compliance with an applicable requirement, fill out a <b>Schedule of Compliance</b> Form as ATTACHMENT F.
Control Devices
For each control device listed in the <b>Title V Equipment Table</b> , fill out and provide an <b>Air Pollution Control Device Form</b> as <b>ATTACHMENT G</b> .
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the <b>Compliance Assurance Monitoring (CAM) Form(s)</b> for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as <b>ATTACHMENT H</b> .

28.	Certification of Truth, Accuracy and Completeness and Certification of Compliance		
Noi	e: This Certification must be signed by a responsible official. The <b>original</b> , signed in <b>blue ink</b> , must be submitted with the application. Applications without an <b>original</b> signed certification will be considered as incomplete.		
а.	Certification of Truth, Accuracy and Completeness		
I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.			
b.	Compliance Certification		
und	rept for requirements identified in the Title V Application for which compliance is not achieved, I, the ersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air taminant sources identified in this application are in compliance with all applicable requirements.		
Res	ponsible official (type or print)		
Naı	Name: Cathy Orr Title: Environmental Coordinator		
Responsible official's signature:  Signature: Signature Date: 1/3/20/7  (Must be signed and dated in blue ink)			
Not	e: Please check all applicable attachments included with this permit application:		
x	ATTACHMENT A: Area Map		
x	ATTACHMENT B: Plot Plan(s)		
х	ATTACHMENT C: Process Flow Diagram(s)		
x	ATTACHMENT D: Equipment Table		
х	ATTACHMENT E: Emission Unit Form(s)		
	ATTACHMENT F: Schedule of Compliance Form(s)		

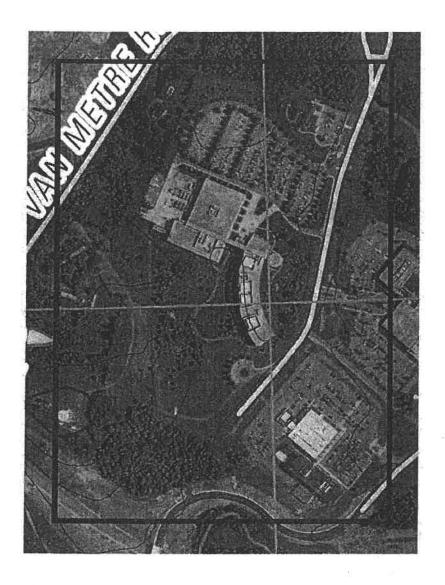
ATTACHMENT G: Air Pollution Control Device Form(s)
ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at  $\underline{www.dep.wv.gov/daq}$ , requested by phone (304) 926-0475, and/or obtained through the mail.

### Attachment A – Area Map

Figure A-1 & A-2 are the Area Maps of the Martinsburg Computing Center showing the Main building and the Annex/Annex Office Expansion location in relation to nearby road.

Figure  $\mathbf{AL}$  is an overview site map of the facility that displays the location of the existing facility.

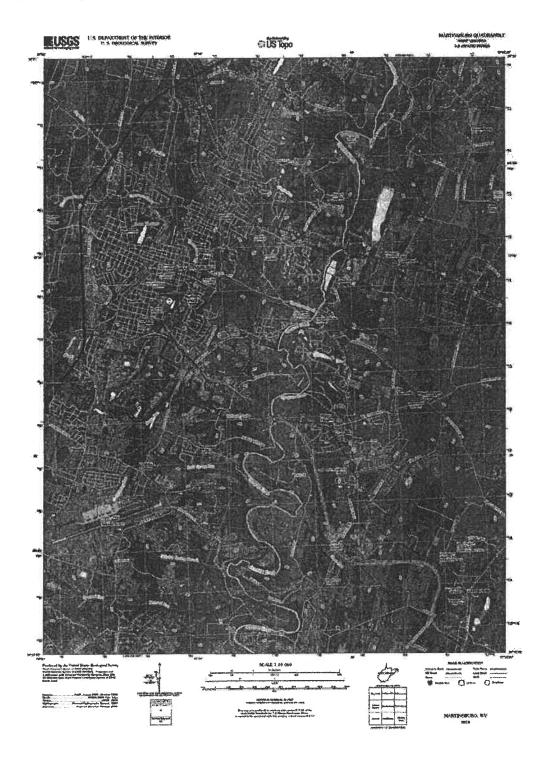


**UTM Coordinates:** 

UTM Northing (KM): 4365.127 UTM Easting (KM): 248.928

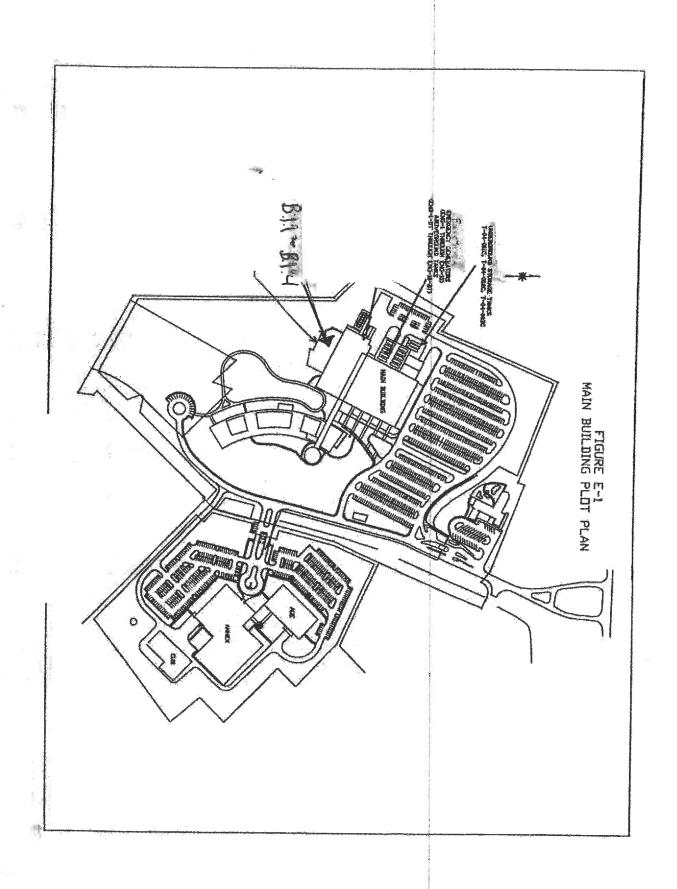
NAVD 88 Elevation (FT): 482

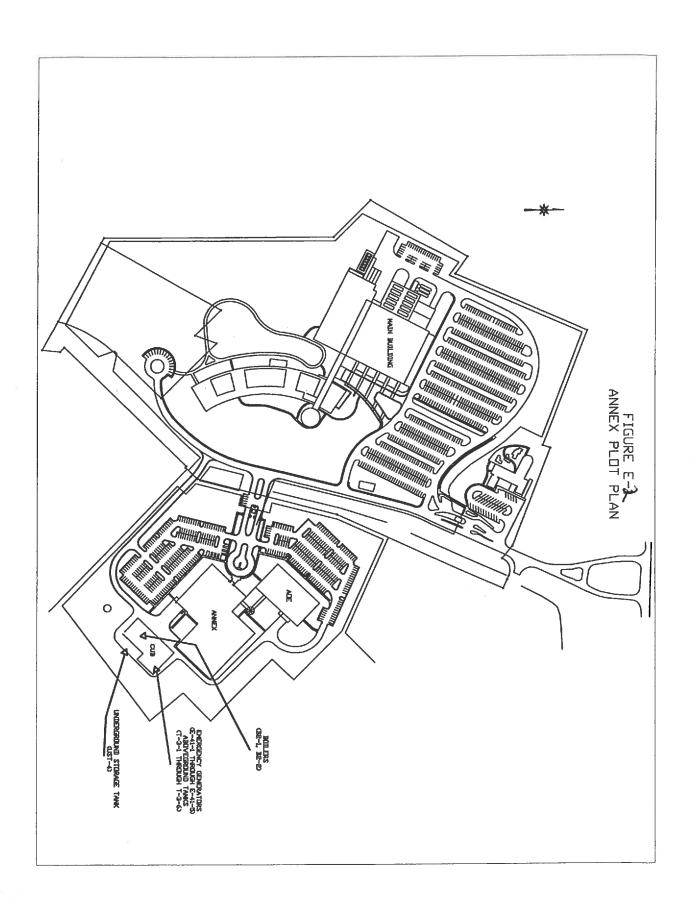
Figure A-1 is a USGS 7.5 minute topographic area map showing the current location of the Facility including topography and UTM Coordinates.



### Attachment B – Plot Plan

Figure E-1 and E-2 are Plot Plans of the Martinsburg Computing Center showing the Main building and the Annex layout and the approximate location of the boilers, emergency generators and fuel storage tanks.

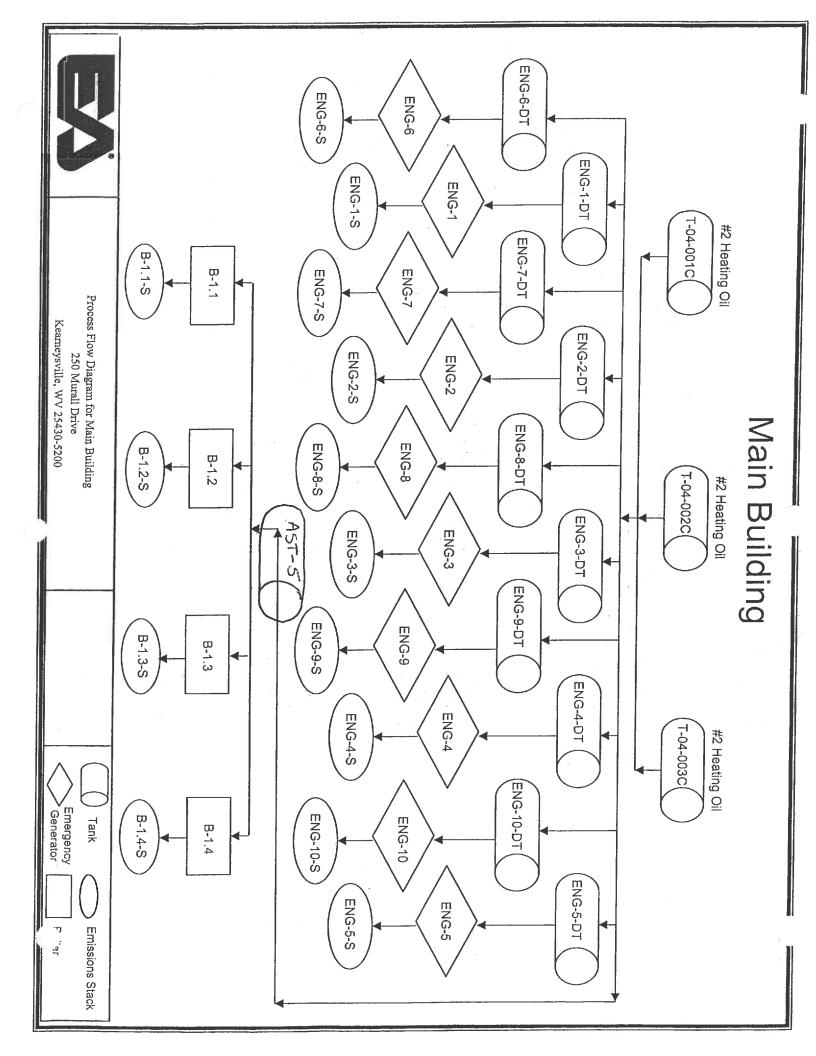




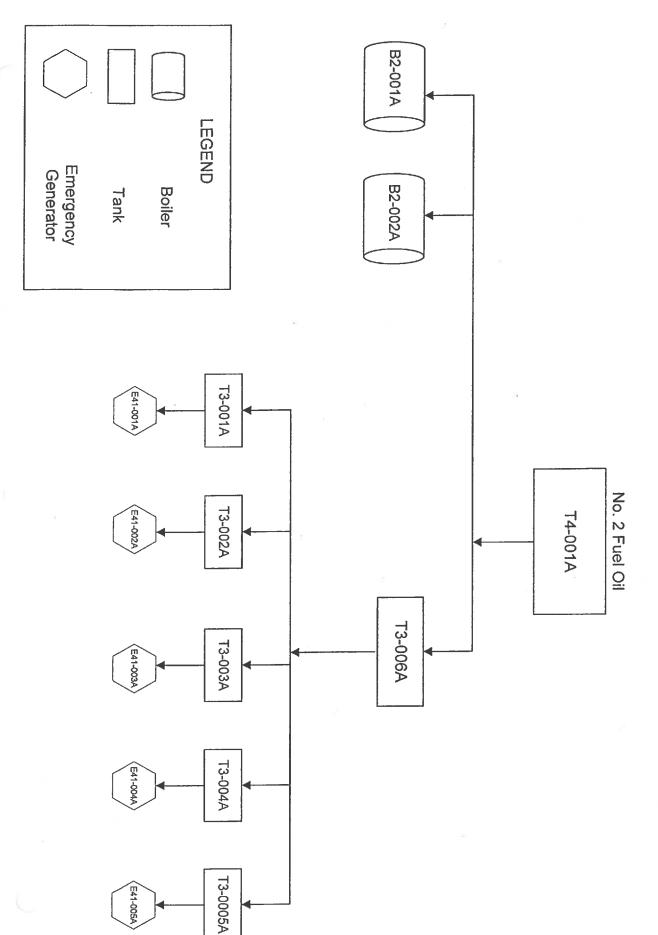
### Attachment C – Detailed Process Flow Diagrams

Figure C-1 is a detailed process flow diagram for the Main Building air emission sources including the boilers, emergency generators and all associated fuel storage tanks.

Figure C-2 is a detailed process flow diagram for the Annex Building air emission sources including the boilers, emergency generators and all associated fuel storage tanks.



# ANNEX BUILDING - DETAILED PROCESS FLOW DIAGRAM



### **ATTACHMENT D - Title V Equipment Table**

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/ Modified
E41-001AS	NOT APPLICAB LE	E41-001A	EMERGENCY GENERATOR	1917 (HP	1995
E41-002AS	NOT APPLICAB LE	E41-002A	EMERGENCY GENERATOR	1917 (HP	1995
E41-003AS	NOT APPLICAB LE	E41-003A	EMERGENCY GENERATOR	1917 (HP	1995
E41-004AS	NOT APPLICAB LE	E41-004A	EMERGENCY GENERATOR	1917 (HP	1995
E41-005AS	NOT APPLICAB LE	E41-005A	EMERGENCY GENERATOR	1917 (HP	1995
B2-001A-S	NOT APPLICAB	B2-001A	BOILER	1.624	1995
B2-002A-S	NOT APPLICAB LE	B2-001A	BOILER	1.624 (MMBTU/hr)	1995
ENG-1	NOT APPLICAB	ENG-1-S	EMERGENCY GENERATOR	2,680 HP	1999
ENG-2	NOT APPLICAB	ENG-2-S	EMERGENCY GENERATOR	2,680 HP	1999
ENG-3	NOT APPLICAB	ENG-3-S	EMERGENCY GENERATOR	2,680 HP	1999
ENG-4	NOT APPLICAB	ENG-4-S	EMERGENCY GENERATOR	2,680 HP	1999
ENG-5	NOT APPLICAB LE	ENG-5-S	EMERGENCY GENERATOR	2,680 HP	1999
ENG-6	NOT APPLICAB	ENG-6-S	EMERGENCY GENERATOR	2,680 HP	1999
ENG-7	NOT APPLICAB	ENG-7-S	EMERGENCY GENERATOR	2,680 HP	1999
ENG-8	NOT APPLICAB	ENG-8-S	EMERGENCY GENERATOR	2,680 HP	1999
ENG-9	NOT APPLICAB	ENG-9-S	EMERGENCY GENERATOR	2,680 HP	1999
ENG-10	NOT APPLICAB	ENG-10-S	EMERGENCY GENERATOR	2,680 HP	1999
B-1.1	NOT APPLICAB	B-1.1-S	BOILER	5MMBtu/hr	2012
B-1.2	NOT APPLICAB	B-1.2-S	BOILER	5MMBtu/hr	2012
B-1.3	NOT APPLICAB	B-1.3-S	BOILER	5MMBtu/hr	2012
B-1.4	NOT APPLICAB	B-1.4-S	BOILER	5MMBtu/hr	2012
NOT APPLICAB	NOT APPLICAB	T-04-001C	NO. 2 FUEL OIL TANK	25000 GAL	1999
NOT APPLICAB	NOT APPLICAB	T-04-002C	NO. 2 FUEL OIL TANK	25000 GAL	. 1999

	Title V Equipment Table (equipment_table.doc)
	Page 1 of 1
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NOT APPLICAB	NOT APPLICAB	T-04-003C	NO. 2 FUEL OIL TANK	25000 GAL	1999
NOT APPLICAB	NOT APPLICAB	T-4-001A	NO. 2 FUEL OIL TANK	25000 GAL	1995
NOT APPLI CABLE	NOT APPLI CABLE	T-3-001A	NO. 2 FUEL OIL TANK	25000 GAL	1995

<sup>1</sup>For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

ATTACHMENT E - Emission Unit Form					
Emission Unit Description					
Emission unit ID number: B-1.1.S, B.1.2.S, B-1.3.S, B-1.4.S	Emission unit name: BOILER	List any control devices associated with this emission unit:  NONE			
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Four identical boilers with #2 fuel oil burners designed for 4200 MBH output (each), sized for 2N redundant operation.					
Manufacturer: BYRAN STEAM LLC	Model number: RV500-W-FDO	Serial number: B-1.1: 99651; 1.2: 9 1.4: 98623.	8624; 1.3: 98622;		
Construction date: 03/15/2013	Installation date: 04/14/2014	Modification date(s air system) 01/15/2015	s): (combustion		
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 35.7 GH	PH max (each)			
Maximum Hourly Throughput: 35.7 GPH	Maximum Annual Throughput: 312732	Maximum Operati 24 HOURS A DAY YEAR			
Fuel Usage Data (fill out all applicat	ole fields)				
Does this emission unit combust fuel	!? X_Yes No	If yes, is it?			
		Indirect Fired	X_Direct Fired		
Maximum design heat input and/or 4200 MBH (each)	Type and Btu/hr rating of burners: POWER FLAME BURNER MODEL NO. C4A-OA				
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.  NO. 2 FUEL OIL @ 35.7143 GPH					
Describe each fuel expected to be used during the term of the permit.					
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value		
NO. 2 FUEL OIL	.2%	0%			

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)	.95	4.16	
Nitrogen Oxides (NO <sub>X</sub> )	.71	3.11	
Lead (Pb)			
Particulate Matter (PM <sub>2.5</sub> )			
Particulate Matter (PM <sub>10</sub> )			
Total Particulate Matter (TSP)			
Sulfur Dioxide (SO <sub>2</sub> )	1.01	4.42	
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potential	Emissions	
·	PPH	TPY	
Regulated Pollutants other than Criteria and HAP	Potential	Emissions	
Criteria and TTAT	РРН	TPY	
List the method(s) used to calculate the versions of software used, source and		s of any stack tests conducted,	
versions of software used, source and	dates of emission factors, etc.).		
		¥	

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.  Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)  The facility will comply with all required recordkeeping and reporting specified under the permit.
Are you in compliance with all applicable requirements for this emission unit? XYesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: ENG-1	Emission unit name:  Main Building – Emergency Generator ENG-1	List any control dewith this emission to None	
Provide a description of the emission Emergency Generator used for backup Center			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00434	
Construction date: Unknown	Installation date: 1999	Modification date(s	s):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 H	P	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicab	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it? Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue		). For each fuel type	listed, provide
#2 Heating Oil – maximum 6.682 MM	BTU per hour, or 3,341 MMBTU per	year	
Describe each fuel expected to be use	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Potential	Emissions
PPH	ТРҮ
14.45	3.614
63.07	15.77
unavailable	unavailable
1.840	0.4599
1.840	0.4599
1.840	0.4599
10.63	2.658
1.853	0.4632
Potential Emissions	
РРН	TPY
0.005185	0.001296
0.001878	0.0004694
0.01864	0.004660
0.001417	0.0003541
Potential	Emissions
PPH	TPY
	PPH  14.45  63.07  unavailable  1.840  1.840  1.840  1.853  Potential  PPH  0.005185  0.001878  0.01864  0.001417  Potential

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
$=$ $ ilde{ u}$
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: ENG-2	Emission unit name:  Main Building – Emergency Generator ENG-2	List any control de with this emission t None	
Provide a description of the emission  Emergency Generator used for backup  Center			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00438	
Construction date: Unknown	Installation date: 1999	Modification date(s N/A	s):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 H	IP	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicab	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it?  Indirect Fired	X Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue	el usage for each.		listed, provide
#2 Heating Oil – maximum 6.682 MM	IBTU per hour, or 3,341 MMBTU per	year	
Describe each fuel expected to be use	ed during the term of the permit.	.,,	
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal
		I	I

Emissions Data		
Criteria Pollutants	Potentia	1 Emissions
	PPH	TPY
Carbon Monoxide (CO)	14.45	3.614
Nitrogen Oxides (NO <sub>X</sub> )	63.07	15.77
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2.5</sub> )	1.840	0.4599
Particulate Matter (PM <sub>10</sub> )	1.840	0.4599
Total Particulate Matter (TSP)	1.840	0.4599
Sulfur Dioxide (SO <sub>2</sub> )	10.63	2.658
Volatile Organic Compounds (VOC)	1.853	0.4632
Hazardous Air Pollutants	Potentia	1 Emissions
	PPH	TPY
Benzene	0.005185	0.001296
Toluene	0.001878	0.0004694
Propylene	0.01864	0.004660
Total PAH	0.001417	0.0003541
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY
None		

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
*
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: ENG-3	Emission unit name:  Main Building – Emergency Generator ENG-3	List any control de with this emission u None	vices associated unit:
Provide a description of the emission Emergency Generator used for backup Center			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00435	
Construction date: Unknown	Installation date: 1999	Modification date(s	s):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 H	IP	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operati 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it? Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	nting of burners:
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue	el usage for each.		listed, provide
#2 Heating Oil – maximum 6.682 MM	BTU per hour, or 3,341 MMBTU per	year	
Describe each fuel expected to be use	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Potential Emissions	
РРН	TPY
14.45	3.614
63.07	15.77
unavailable	unavailable
1.840	0.4599
1.840	0.4599
1.840	0.4599
10.63	2.658
1.853	0.4632
Potential	Emissions
РРН	TPY
0.005185	0.001296
0.001878	0.0004694
0.01864	0.004660
0.001417	0.0003541
Potential	Emissions
РРН	TPY
	PPH  14.45  63.07  unavailable  1.840  1.840  1.840  10.63  1.853  Potential  PPH  0.005185  0.001878  0.01864  0.001417  Potential

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating
compliance. If there is not already a required method in place, then a method must be proposed.)
Fine facility will comply with all required recordkeeping and reporting specified under this permit.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: ENG-4	Emission unit name:  Main Building – Emergency Generator ENG-4	List any control dewith this emission under the None	
Provide a description of the emission  Emergency Generator used for backup			
Center	Telectrical power within the Main Bar	land of the Bhot phot	
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00433	
Construction date: Unknown	Installation date: 1999	Modification date(s	s):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 H	IP .	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it?	
		Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue		). For each fuel type	listed, provide
#2 Heating Oil – maximum 6.682 MM	IBTU per hour, or 3,341 MMBTU per	year	
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Criteria Pollutants		l Emissions
	РРН	TPY
Carbon Monoxide (CO)	14.45	3.614
Nitrogen Oxides (NO <sub>X</sub> )	63.07	15.77
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2.5</sub> )	1.840	0.4599
Particulate Matter (PM <sub>10</sub> )	1.840	0.4599
Total Particulate Matter (TSP)	1.840	0.4599
Sulfur Dioxide (SO <sub>2</sub> )	10.63	2.658
Volatile Organic Compounds (VOC)	1.853	0.4632
Hazardous Air Pollutants	Potentia	Emissions
	РРН	TPY
Benzene	0.005185	0.001296
Toluene .	0.001878	0.0004694
Propylene	0.01864	0.004660
Total PAH	0.001417	0.0003541
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY
None		

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
D
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
· ·
Are you in compliance with all applicable requirements for this emission unit? X YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: ENG-5	Emission unit name:  Main Building – Emergency Generator ENG-5	List any control de with this emission u None	
Provide a description of the emission	n unit (type, method of operation, de	esign parameters, etc	.):
Emergency Generator used for backup Center	electrical power within the Main Bui	lding of the Enterprise	Computing
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00432	
Construction date: Unknown	Installation date: 1999	Modification date(s	s):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 H	[P	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it?	
		Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue		). For each fuel type	listed, provide
#2 Heating Oil maximum 6.682 MM	BTU per hour, or 3,341 MMBTU per	year	
Describe each fuel expected to be use	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal
	~····		

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)	14.45	3.614
Nitrogen Oxides (NO <sub>X</sub> )	63.07	15.77
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2.5</sub> )	1.840	0.4599
Particulate Matter (PM <sub>10</sub> )	1.840	0.4599
Total Particulate Matter (TSP)	1.840	0.4599
Sulfur Dioxide (SO <sub>2</sub> )	10.63	2.658
Volatile Organic Compounds (VOC)	1.853	0.4632
Hazardous Air Pollutants	Potential	Emissions
	PPH	TPY
Benzene	0.005185	0.001296
Toluene	0.001878	0.0004694
Propylene	0.01864	0.004660
Total PAH	0.001417	0.0003541
Regulated Pollutants other than	Potential	Emissions
Criteria and HAP	РРН	TPY
None		

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? X Yes No
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: ENG-6	Emission unit name:  Main Building – Emergency Generator ENG-6	List any control dev with this emission u None	
Provide a description of the emission  Emergency Generator used for backup  Center			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00437	
Construction date: Unknown	Installation date: 1999	Modification date(s	):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 H	ĮP	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it? Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue #2 Heating Oil – maximum 6.682 MM	el usage for each.		listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

PPH           Carbon Monoxide (CO)         14.45           Nitrogen Oxides (NO <sub>X</sub> )         63.07           Lead (Pb)         unavailable           Particulate Matter (PM <sub>2.5</sub> )         1.840           Particulate Matter (PM <sub>10</sub> )         1.840           Total Particulate Matter (TSP)         1.840	TPY 3.614 15.77 unavailable 0.4599
Carbon Monoxide (CO) $14.45$ Nitrogen Oxides (NO <sub>X</sub> ) $63.07$ Lead (Pb)       unavailable         Particulate Matter (PM <sub>2.5</sub> ) $1.840$ Particulate Matter (PM <sub>10</sub> ) $1.840$ Total Particulate Matter (TSP) $1.840$	3.614 15.77 unavailable 0.4599
Nitrogen Oxides (NO <sub>X</sub> ) $63.07$ Lead (Pb) unavailable  Particulate Matter (PM <sub>2.5</sub> ) $1.840$ Particulate Matter (PM <sub>10</sub> ) $1.840$ Total Particulate Matter (TSP) $1.840$	15.77 unavailable 0.4599
Lead (Pb)  Particulate Matter (PM <sub>2.5</sub> )  Particulate Matter (PM <sub>10</sub> )  Total Particulate Matter (TSP)  unavailable  1.840  1.840	unavailable 0.4599
Particulate Matter (PM <sub>2.5</sub> )  Particulate Matter (PM <sub>10</sub> )  Total Particulate Matter (TSP)  1.840  1.840	0.4599
Particulate Matter (PM <sub>10</sub> ) 1.840  Total Particulate Matter (TSP) 1.840	
Total Particulate Matter (TSP) 1.840	0.4599
10.62	0.4599
Sulfur Dioxide (SO <sub>2</sub> ) 10.63	2.658
Volatile Organic Compounds (VOC) 1.853	0.4632
Hazardous Air Pollutants Potentia	ll Emissions
РРН	TPY
Benzene 0.005185	0.001296
Toluene . 0.001878 .	0.0004694
Propylene 0.01864	0.004660
Total PAH 0.001417	0.0003541
110841444 1 0114141111111111111111111111	ıl Emissions
Criteria and HAP PPH	TPY
None	

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: ENG-7	Emission unit name:  Main Building – Emergency Generator ENG-7	List any control de with this emission u	
Provide a description of the emission	n unit (type, method of operation, de	esign parameters, etc	·.):
Emergency Generator used for backup Center	electrical power within the Main Bui	lding of the Enterprise	e Computing
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00429	
Construction date: Unknown	Installation date: 1999	Modification date(s	s):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 H	IP '	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicab	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it?	
		Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	iting of burners:
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue		). For each fuel type	listed, provide
#2 Heating Oil – maximum 6.682 MM	BTU per hour, or 3,341 MMBTU per	year	
Describe each fuel expected to be use	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal
4(			

Potentia	Emissions
PPH	TPY
14.45	3.614
63.07	15.77
unavailable	unavailable
1.840	0.4599
1.840	0.4599
1.840	0.4599
10.63	2.658
1.853	0.4632
Hazardous Air Pollutants . Potential Emissions	
PPH	TPY
0.005185	0.001296
0.001878	0.0004694
0.01864	0.004660
0.001417	0.0003541
Potentia	Emissions
РРН	TPY
	PPH  14.45  63.07  unavailable  1.840  1.840  1.840  10.63  1.853  Potentia  PPH  0.005185  0.001878  0.01864  0.001417  Potentia

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: ENG-8	Emission unit name:  Main Building – Emergency Generator ENG-8	List any control de with this emission to None	
Provide a description of the emission Emergency Generator used for backup Center			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00430	
Construction date: Unknown	Installation date:	Modification date(s	s):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 H	IP	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it? Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	iting of burners:
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue		). For each fuel type	listed, provide
#2 Heating Oil – maximum 6.682 MM	BTU per hour, or 3,341 MMBTU per	year	
19			
Describe each fuel expected to be use	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal
E)			
		1	

Emissions Data		
Criteria Pollutants	Potential	Emissions
	РРН	TPY
Carbon Monoxide (CO)	14.45	3.614
Nitrogen Oxides (NO <sub>X</sub> )	63.07	15.77
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2.5</sub> )	1.840	0.4599
Particulate Matter (PM <sub>10</sub> )	1.840	0.4599
Total Particulate Matter (TSP)	1.840	0.4599
Sulfur Dioxide (SO <sub>2</sub> )	10.63	2.658
Volatile Organic Compounds (VOC)	1.853	0.4632
Hazardous Air Pollutants	Potential Emissions	
,	PPH	TPY
Benzene	0.005185	0.001296
Toluene	0.001878	0.0004694
Propylene	0.01864	0.004660
Total PAH	0.001417	0.0003541
Regulated Pollutants other than	Potential	Emissions
Criteria and HAP	PPH	TPY
None		
None	РРН	

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

ATT	ACHMENT E - Emission Unit	t Form	
Emission Unit Description			
Emission unit ID number: ENG-9	Emission unit name:  Main Building – Emergency Generator ENG-9	List any control dev with this emission u None	
Provide a description of the emission	unit (type, method of operation, de	esign parameters, etc.	.):
Emergency Generator used for backup Center	electrical power within the Main Bui	lding of the Enterprise	Computing
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00431	
Construction date: Unknown	Installation date: 1999	Modification date(s N/A	):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 H	IP .	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)	<del>                                     </del>	<del></del>
Does this emission unit combust fuel	? _X_Yes No	If yes, is it?	
		Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue	applicable, the secondary fuel type(s	). For each fuel type	listed, provide
#2 Heating Oil – maximum 6.682 MM	BTU per hour, or 3,341 MMBTU per	year	
Describe each fuel expected to be use	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)	14.45	3.614
Nitrogen Oxides (NO <sub>X</sub> )	63.07	15.77
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2.5</sub> )	1.840	0.4599
Particulate Matter (PM <sub>10</sub> )	1.840	0.4599
Total Particulate Matter (TSP)	1.840	0.4599
Sulfur Dioxide (SO <sub>2</sub> )	10.63	2.658
Volatile Organic Compounds (VOC)	1.853	0.4632
Hazardous Air Pollutants	Potential Emissions	
	РРН	TPY
Benzene	0.005185	0.001296
Toluene	0.001878	0.0004694
Propylene	0.01864	0.004660
Total PAH	0.001417	0.0003541
Regulated Pollutants other than	Potential	Emissions
Criteria and HAP	РРН	TPY
None		

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: ENG-10	Emission unit name:  Main Building – Emergency Generator ENG-10	List any control dewith this emission under the control of the con	
Provide a description of the emission Emergency Generator used for backup Center			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 7RN00428	
Construction date: Unknown	Installation date: 1999	Modification date(s	s):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,628 F	IP	
Maximum Hourly Throughput: 6.682 MMBTU	Maximum Annual Throughput: 3,341 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it?	
		Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,628 HP		6.682 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue #2 Heating Oil – maximum 6.682 MM	el usage for each.		listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)	14.45	3.614
Nitrogen Oxides (NO <sub>X</sub> )	63.07	15.77
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2.5</sub> )	1.840	0.4599
Particulate Matter (PM <sub>10</sub> )	1.840	0.4599
Total Particulate Matter (TSP)	1.840	0.4599
Sulfur Dioxide (SO <sub>2</sub> )	10.63	2.658
Volatile Organic Compounds (VOC)	1.853	0.4632
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	0.005185	0.001296
Toluene	0.001878	0.0004694
Propylene	0.01864	0.004660
Total PAH	0.001417	0.0003541
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY
None		

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
25
Sulfur content of the heating oil will not exceed 0.5%.
z ×
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
v v
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: B2-001A	Emission unit name: Annex - Boiler B-2-1	List any control dev with this emission u None	vices associated unit:
Provide a description of the emission Boiler used for space heating within th			.):
Manufacturer: Weil McLain	Model number: P-1278-W	Serial number: Not Available	
Construction date: 1995	Installation date: 1995	Modification date(s	):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 1.624 N	лмвти/Hour	
Maximum Hourly Throughput: 11.6 gallons per hour	Maximum Annual Throughput: 101,616 gallons	Maximum Operation 8,760 hours per year	
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fue	1? _X_Yes No	If yes, is it?  X_ Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
1.624 MMBTU per hour		1.624 MMBTU per l	hour
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide
#2 Heating Oil – maximum 11.6 gallo	ns per hour, or 101,616 gallons per ye	ar	
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.0580	0.2540
Nitrogen Oxides (NO <sub>X</sub> )	0.2320	1.016
Lead (Pb)	0.00001462	0.00006402
Particulate Matter (PM <sub>2.5</sub> )	0.009628	0.04217
Particulate Matter (PM <sub>10</sub> )	0.01253	0.05487
Total Particulate Matter (TSP)	0.02320	0.1016
Sulfur Dioxide (SO <sub>2</sub> )	0.8236	3.607
Volatile Organic Compounds (VOC)	0.006450	0.02825
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Selenium	0.00002436	0.0001067
Manganese	0.000009744	0.00004268
Copper	0.000009744	0.00004268
Arsenic	0.000006496	0.00002845
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	РРН	TPY
None		
None		

Based on AP-42 Emissions Factors, Section 1.3 – Tables 1.3-1 (distillate oil, #2 heating oil for boilers <100 MMBTU/Hour, Table 1.3-3, Table 1.3-7, Table 1.3-9 and Table 1.3-10 (dated 1998)

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Tr.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: B2-002A	Emission unit name: Annex - Boiler B-2-2	List any control dev with this emission u None	
Provide a description of the emission Boiler used for space heating within the			):
Manufacturer: Weil McLain	Model number: P-1278-W	Serial number: Not Available	
Construction date: 1995	Installation date: 1995	Modification date(s N/A	):
Design Capacity (examples: furnace	es - tons/hr, tanks - gallons): 1.624 N	MMBTU/Hour	
Maximum Hourly Throughput: 11.6 gallons per hour	Maximum Annual Throughput: 101,616 gallons	Maximum Operation 8,760 hours per year	
Fuel Usage Data (fill out all applical	ole fields)		
Does this emission unit combust fue	1? _X_Yes No	If yes, is it?  _X_ Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
1.624 MMBTU per hour		1.624 MMBTU per I	nour
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide
#2 Heating Oil – maximum 11.6 gallo	ns per hour, or 101,616 gallons per ye	ear	
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.0580	0.2540
Nitrogen Oxides (NO <sub>X</sub> )	0.2320	1.016
Lead (Pb)	0.00001462	0.00006402
Particulate Matter (PM <sub>2.5</sub> )	0.009628	0.04217
Particulate Matter (PM <sub>10</sub> )	0.01253	0.05487
Total Particulate Matter (TSP)	0.02320	0.1016
Sulfur Dioxide (SO <sub>2</sub> )	0.8236	3.607
Volatile Organic Compounds (VOC)	0.006450	0.02825
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Selenium	0.00002436	0.0001067
Manganese	0.000009744	0.00004268
Copper	0.000009744	0.00004268
Arsenic	0.000006496	0.00002845
Regulated Pollutants other than	Potential	Emissions
Criteria and HAP	PPH	TPY
None		

Based on AP-42 Emissions Factors, Section 1.3 – Tables 1.3-1 (distillate oil, #2 heating oil for boilers <100 MMBTU/Hour, Table 1.3-3, Table 1.3-7, Table 1.3-9 and Table 1.3-10 (dated 1998)

pplicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the inderlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V vermit condition numbers alone are not the underlying applicable requirements). If an emission limit is alculated based on the type of source and design capacity or if a standard is based on a design parameter, his information should also be included.
sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
9
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
f no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: E-41-1	Emission unit name: Annex – Emergency Generator E-41-1	List any control dev with this emission u None	rices associated nit:
Provide a description of the emissio  Emergency Generator used for backup			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 25Z04312	
Construction date: Unknown	Installation date: 1995	Modification date(s	):
Design Capacity (examples: furnace	es - tons/hr, tanks - gallons): 2,146 F	НP	
Maximum Hourly Throughput: 5.455 MMBTU	Maximum Annual Throughput: 2,728 MMBTU	Maximum Operatin 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applica	ble fields)		
Does this emission unit combust fue	<b>!?</b> _X_Yes No	If yes, is it? Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,146 HP		5.455 MMBTU/hr	
List the primary fuel type(s) and if the maximum hourly and annual fu	applicable, the secondary fuel type(sel usage for each.	s). For each fuel type	listed, provide
#2 Heating Oil – maximum 5.455 MN	4BTU per hour, or 2,728 MMBTU pe	г уеаг	
Describe each fuel expected to be us	sed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)	11.80	2.951
Nitrogen Oxides (NO <sub>X</sub> )	51.50	12.88
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2.5</sub> )	1.502	0.3756
Particulate Matter (PM <sub>10</sub> )	1.502	0.3756
Total Particulate Matter (TSP)	1.502	0.3756
Sulfur Dioxide (SO <sub>2</sub> )	8.681	2.170
Volatile Organic Compounds (VOC)	1.513	0.3782
Hazardous Air Pollutants	Potential	l Emissions
	РРН	TPY
Benzene	0.004233	0.001058
Toluene	0.001533	0.0003832
Propylene	0.01522	0.003805
Total PAH	0.001156	0.0002891
Regulated Pollutants other than	Potential	l Emissions
Criteria and HAP	РРН	TPY
None		
·		

Based on AP-42 Emissions Factors, Section 3.4 - Tables 3.4-1 (diesel fuel), Table 3.4-3 and 3.4-4 (dated 1996)

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: E-41-2	Emission unit name: Annex – Emergency Generator E-41-2	List any control dewith this emission a	
Provide a description of the emission Emergency Generator used for backup			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 25Z04316	
Construction date: Unknown	Installation date: 1995	Modification date(s N/A	i):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,146 H	IP	
Maximum Hourly Throughput: 5.455 MMBTU	Maximum Annual Throughput: 2,728 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it? Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,146 HP		5.455 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue		). For each fuel type	listed, provide
#2 Heating Oil – maximum 5.455 MM	BTU per hour, or 2,728 MMBTU per	year	
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Emissions Data		
Criteria Pollutants	Potential Emissions	
·	РРН	TPY
Carbon Monoxide (CO)	11.80	2.951
Nitrogen Oxides (NO <sub>X</sub> )	51.50	12.88
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2.5</sub> )	1.502	0.3756
Particulate Matter (PM <sub>10</sub> )	1.502	0.3756
Total Particulate Matter (TSP)	1.502	0.3756
Sulfur Dioxide (SO <sub>2</sub> )	8.681	2.170
Volatile Organic Compounds (VOC)	1.513	0.3782
Hazardous Air Pollutants	Potentia	l Emissions
	РРН	TPY
Benzene	0.004233	0.001058
Toluene	0.001533	0.0003832
Propylene	0.01522	0.003805
Total PAH	0.001156	0.0002891
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	РРН	TPY
None		

Based on AP-42 Emissions Factors, Section 3.4 - Tables 3.4-1 (diesel fuel), Table 3.4-3 and 3.4-4 (dated 1996)

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: E-41-3	Emission unit name:  Annex – Emergency Generator E-41-3	List any control dev with this emission u None	
Provide a description of the emission Emergency Generator used for backup			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 25Z04306	
Construction date: Unknown	Installation date: 1995	Modification date(s N/A	):
Design Capacity (examples: furnace	es - tons/hr, tanks - gallons): 2,146 F	IP .	
Maximum Hourly Throughput: 5.455 MMBTU	Maximum Annual Throughput: 2,728 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applical	ole fields)		
Does this emission unit combust fue	!? _X_Yes No	If yes, is it?	
		Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,146 HP		5.455 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue		s). For each fuel type	listed, provide
#2 Heating Oil – maximum 5.455 MM	IBTU per hour, or 2,728 MMBTU per	r year	
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal
			1

Emissions Data		
Criteria Pollutants	Potentia	1 Emissions
	РРН	TPY
Carbon Monoxide (CO)	11.80	2.951
Nitrogen Oxides (NO <sub>X</sub> )	51.50	12.88
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2.5</sub> )	1.502	0.3756
Particulate Matter (PM <sub>10</sub> )	1.502	0.3756
Total Particulate Matter (TSP)	1.502	0.3756
Sulfur Dioxide (SO <sub>2</sub> )	8.681	2.170
Volatile Organic Compounds (VOC)	1.513	0.3782
Hazardous Air Pollutants	Potentia	l Emissions
	РРН	TPY
Benzene	0.004233	0.001058
Toluene	0.001533	0.0003832
Propylene	0.01522	0.003805
Total PAH	0.001156	0.0002891
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY
None		

Based on AP-42 Emissions Factors, Section 3.4 - Tables 3.4-1 (diesel fuel), Table 3.4-3 and 3.4-4 (dated 1996)

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: E-41-4	Emission unit name: Annex Emergency Generator E-41-4	List any control dewith this emission to None	
Provide a description of the emission  Emergency Generator used for backup			
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 25Z04308	
Construction date: Unknown	Installation date: 1995	Modification date(s N/A	):
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons): 2,146 H	P	
Maximum Hourly Throughput: 5.455 MMBTU	Maximum Annual Throughput: 2,728 MMBTU	Maximum Operation 500 hours per year	ng Schedule:
Fuel Usage Data (fill out all applical	le fields)		
Does this emission unit combust fuel	? _X_Yes No	If yes, is it?	
		Indirect Fired	_X_Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
2,146 HP		5.455 MMBTU/hr	
List the primary fuel type(s) and if a the maximum hourly and annual fue		). For each fuel type	listed, provide
#2 Heating Oil – maximum 5.455 MM	BTU per hour, or 2,728 MMBTU per	year	
Describe each fuel expected to be use	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	11.80	2.951
Nitrogen Oxides (NO <sub>X</sub> )	51.50	12.88
Lead (Pb)	unavailable	unavailable
Particulate Matter (PM <sub>2,5</sub> )	1.502	0.3756
Particulate Matter (PM <sub>10</sub> )	1.502	0.3756
Total Particulate Matter (TSP)	1.502	0.3756
Sulfur Dioxide (SO <sub>2</sub> )	8.681	2.170
Volatile Organic Compounds (VOC)	1.513	0.3782
Hazardous Air Pollutants	Potentia	l Emissions
	PPH	TPY
Benzene	0.004233	0.001058
Toluene	0.001533	0.0003832
Propylene	0.01522	0.003805
Total PAH	0.001156	0.0002891
Regulated Pollutants other than	Potentia	1 Emissions
Criteria and HAP	РРН	TPY
None		

Based on AP-42 Emissions Factors, Section 3.4 – Tables 3.4-1 (diesel fuel), Table 3.4-3 and 3.4-4 (dated 1996)

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
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Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

ATTACHMENT E - Emission Unit Form						
Emission Unit Description						
Emission unit ID number: E-41-5	Emission unit name: Annex – Emergency Generator E-41-5	List any control devices associated with this emission unit:  None				
Provide a description of the emission unit (type, method of operation, design parameters, etc.):  Emergency Generator used for backup electrical power within the Annex of the Enterprise Computing Center						
Manufacturer: Caterpillar	Model number: 3516B	Serial number: 25Z04313				
Construction date: Unknown	Installation date: 1995	Modification date(s): N/A				
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2,146 HP						
Maximum Hourly Throughput: 5.455 MMBTU	Maximum Annual Throughput: 2,728 MMBTU	Maximum Operating Schedule: 500 hours per year				
Fuel Usage Data (fill out all applical	ole fields)					
Does this emission unit combust fue	? _X_Yes No	If yes, is it?				
Indirect Fit			_X_Direct Fired			
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:				
2,146 HP		5.455 MMBTU/hr				
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.						
#2 Heating Oil – maximum 5.455 MM	IBTU per hour, or 2,728 MMBTU per	r year				
Describe each fuel expected to be used during the term of the permit.						
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value			
#2 Heating Oil	0.5%	Unavailable	140,000BTU/gal			

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	11.80	2.951	
Nitrogen Oxides (NO <sub>X</sub> )	51.50	12.88	
Lead (Pb)	unavailable	unavailable	
Particulate Matter (PM <sub>2.5</sub> )	1.502	0.3756	
Particulate Matter (PM <sub>10</sub> )	1.502	0.3756	
Total Particulate Matter (TSP)	1.502	0.3756	
Sulfur Dioxide (SO <sub>2</sub> )	8.681	2.170	
Volatile Organic Compounds (VOC)	1.513	0.3782	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Benzene	0.004233	0.001058	
Toluene	0.001533	0.0003832	
Propylene	0.01522	0.003805	
Total PAH	0.001156	0.0002891	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	
None			

Based on AP-42 Emissions Factors, Section 3.4 – Tables 3.4-1 (diesel fuel), Table 3.4-3 and 3.4-4 (dated 1996)

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Sulfur content of the heating oil will not exceed 0.5%.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
The facility will comply with all required recordkeeping and reporting specified under this permit.
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.